## **AMENDED CLAIMS**

[(received by the International Bureau on 17 August 2004 (17.08.04); original claim 1 replaced by amended claim 1; remaining claims unchanged (1 page)]

- 1. A composition used for diagnosing a lysosomal storage disorder ("LSD") comprising:
- a capture antibody conjugated to a microsphere; and
  the microsphere having at least a first fluorophore and a second fluorophore
  wherein,

the capture antibody is capable of binding a target antigen and the target antigen comprises an LSD associated biomolecule.

- 10 2. The composition of claim 1, further comprising a detection antibody, wherein the detection antibody is capable of binding the target antigen, but is different from the capture antibody; and the detection antibody is conjugated to a detection label.
  - 3. The composition of claim 1, wherein the target antigen is α-iduronidase, α-glucosidase, saposin C, LAMP-1, or LAMP-2.
- The composition of claim 1, wherein the target antigen is β-glucosidase, α-15 4. galactosidase A. iduronate-2-sulphatase, N-acetylgalactosamine 4-sulphatase, galactose 6-sulphatase, acid sphingomyelinase, galactocerebrosidase, arylsulphatase A, saposin B, heparan-N-sulphatase, α-N-acetylglucosaminidase, acetylCoA: β-N-acetylglucosamine 6-sulphatase, N-acetyltransferase, glucosamine β-glucuronidase, aspartylglucosaminidase, acid lipase, β-20 galactosidase, hexosamindase A, β-hexosamindase B, GM2-acitvator, acid ceramidase, α-Lneuraminidase. β-D-mannosidase, fucosidase, α-D-mannosidase, phosphotransferase, phosphotransferase g-subunit, palmitoyl protein thioesterase, tripeptidyl peptidase I, cathespsin K, a-galactosidase B, or sialic acid transporter.

## **STATEMENT UNDER ARTICLE 19 (1)**

One aspect of the current invention is a composition that is utilized for diagnosing a lysosomal storage disorder ("LSD"). In a specific embodiment, a capture antibody conjugated to a microsphere having at least a first fluorophore and a second fluorophore is an improvement on the technology in AU26869/97. The AU26869/97 reference does not teach or suggest microspheres having any type of fluorophore.

The applicants have amended Claim 1 to include the phrase:

"the microsphere having at least a first fluorophore and a second fluorophore."